

Fig. 1.

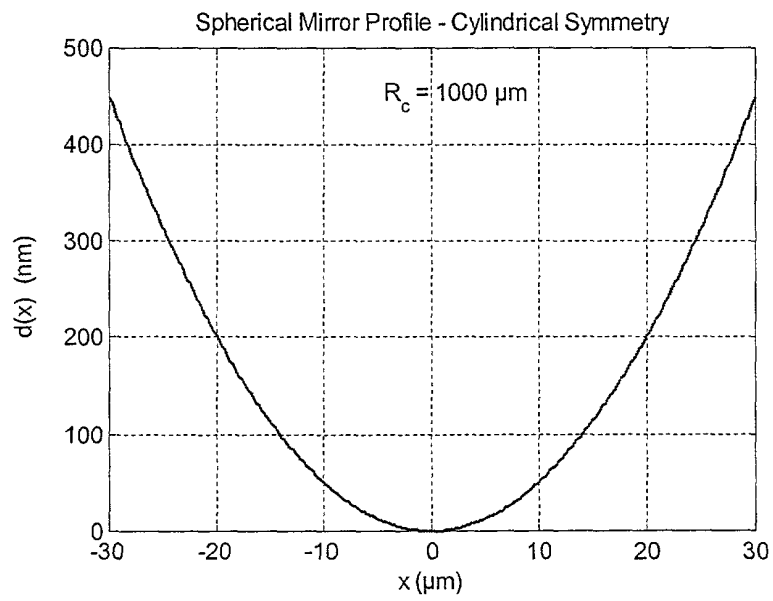


Fig. 2.

Hermite-Gaussian Mode TEM(0,0)

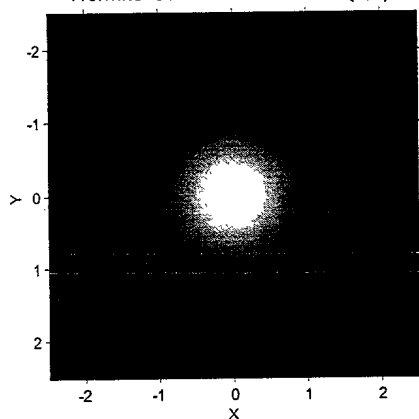


Fig. 3A

Hermite-Gaussian Mode TEM(1,0)

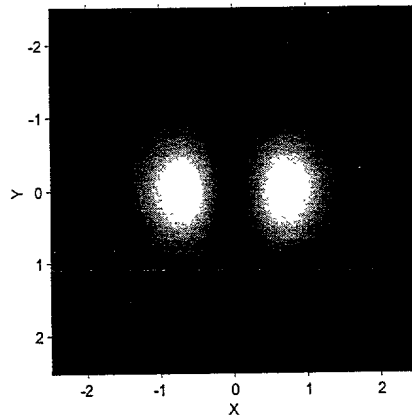


Fig. 3B

Hermite-Gaussian Mode TEM(1,1)

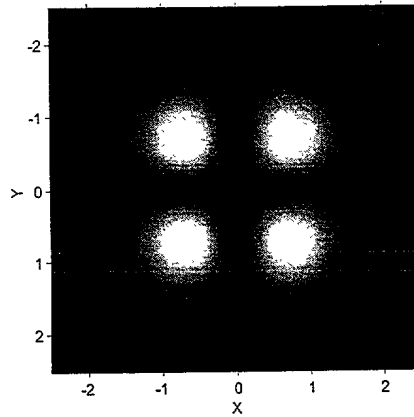


Fig. 3C

Hermite-Gaussian Mode TEM(2,0)

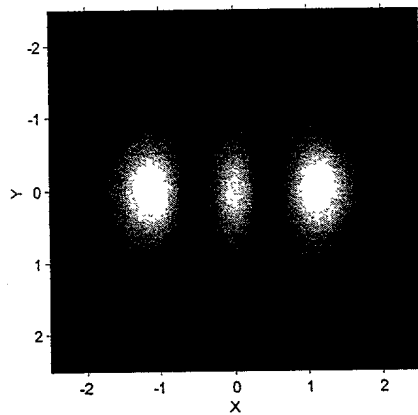


Fig. 3D

Hermite-Gaussian Mode TEM(2,1)

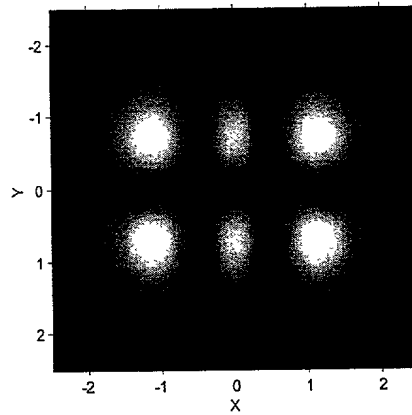


Fig. 3E

Hermite-Gaussian Mode TEM(2,2)

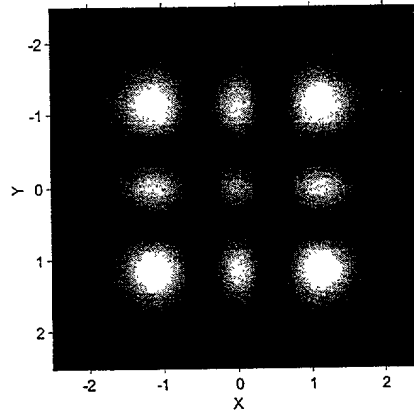


Fig. 3F

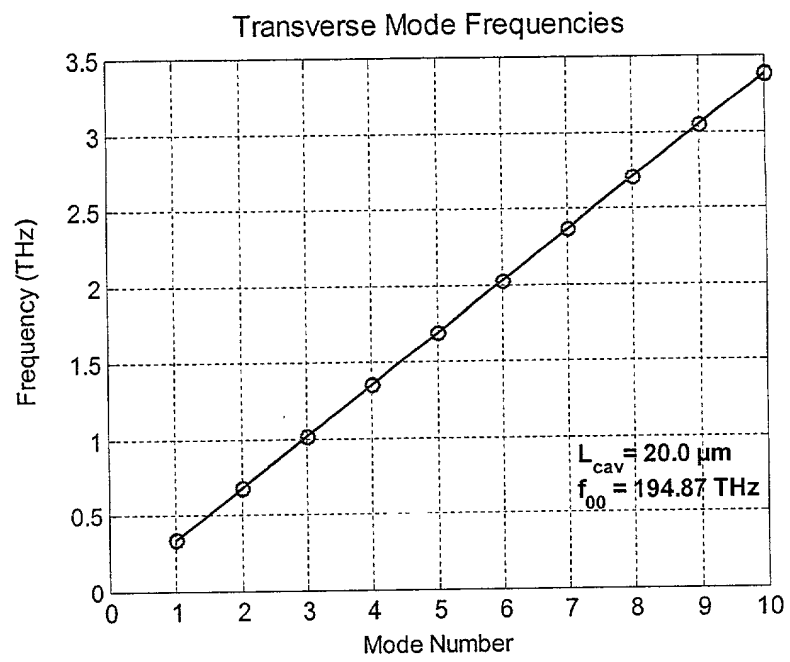


Fig. 4.

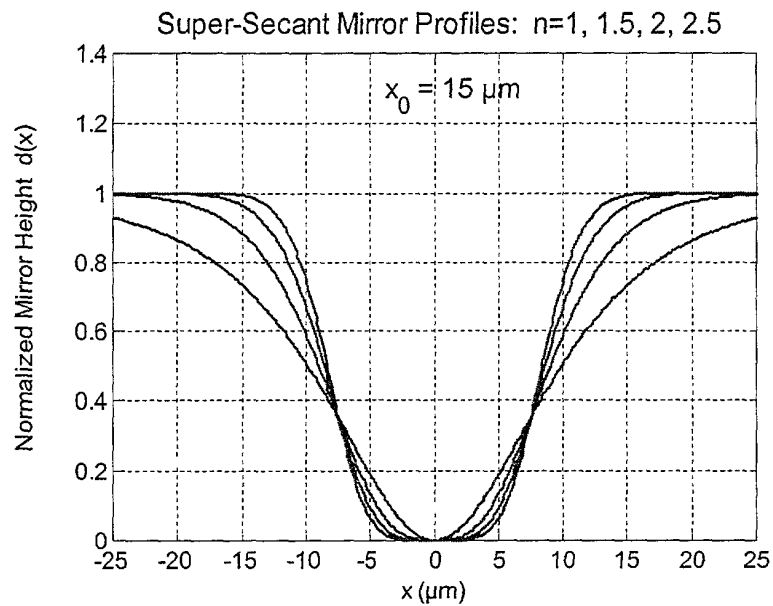


Fig. 5.

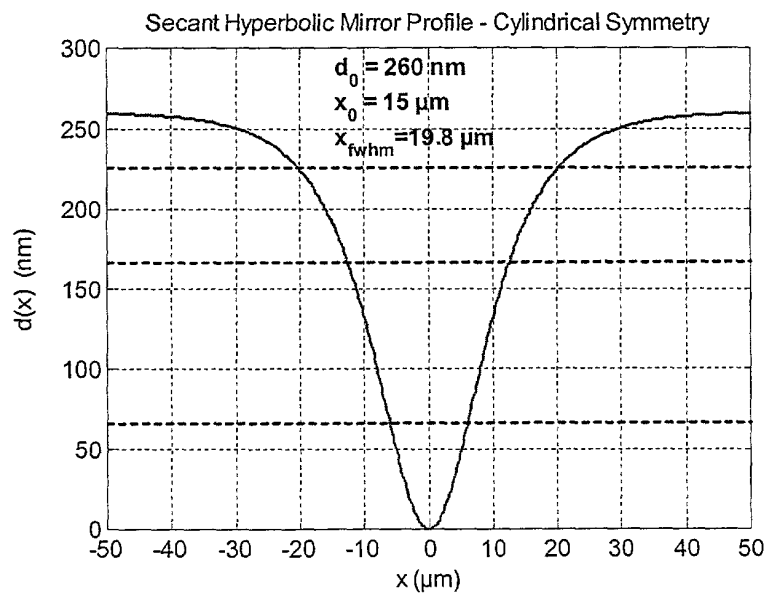


Fig. 6.

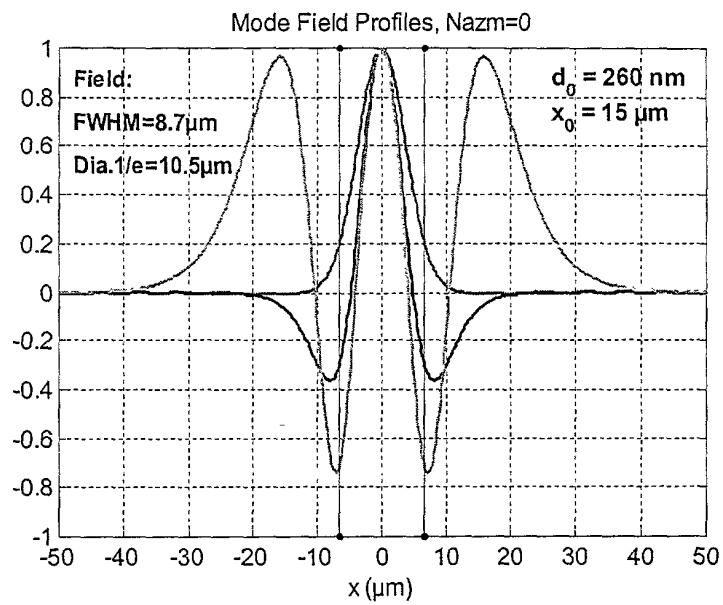


Fig. 7.

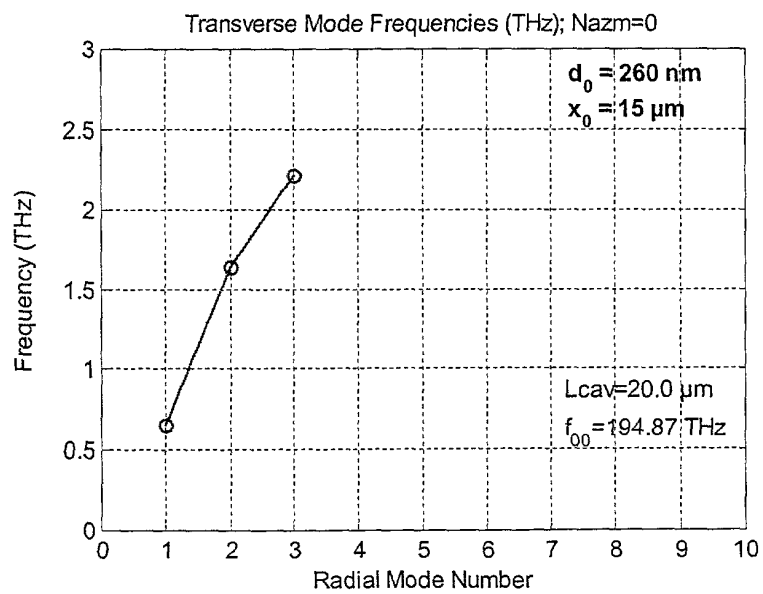


Fig. 8.

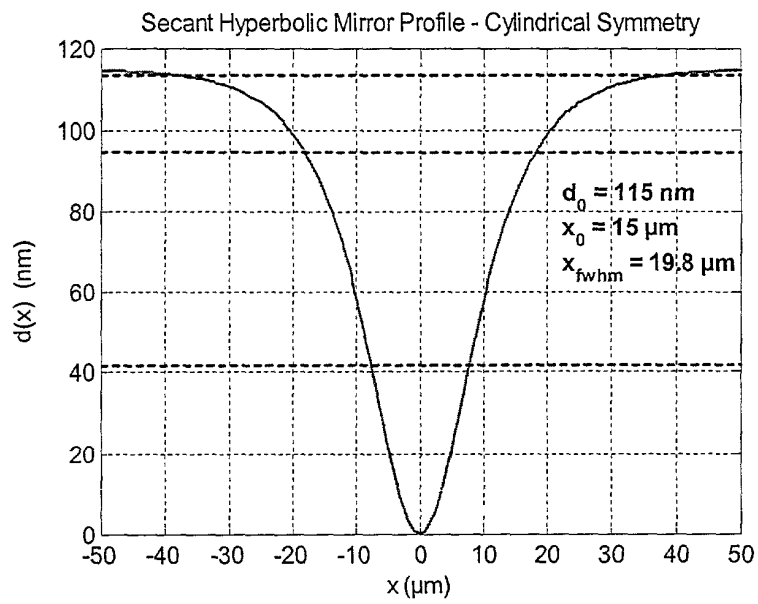


Fig. 9.

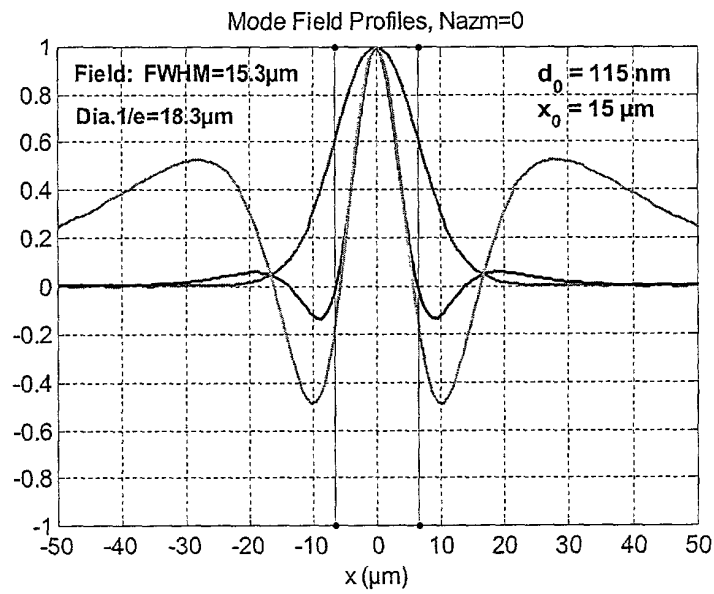


Fig. 10.

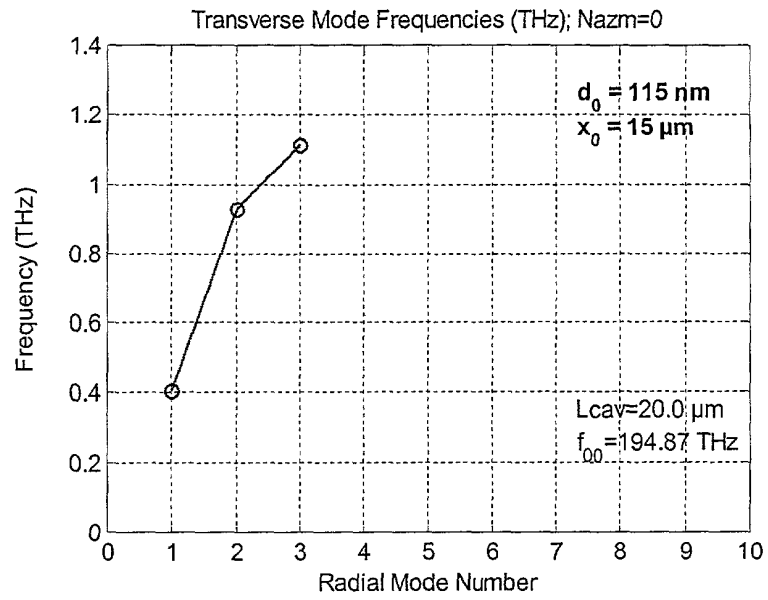


Fig. 11.

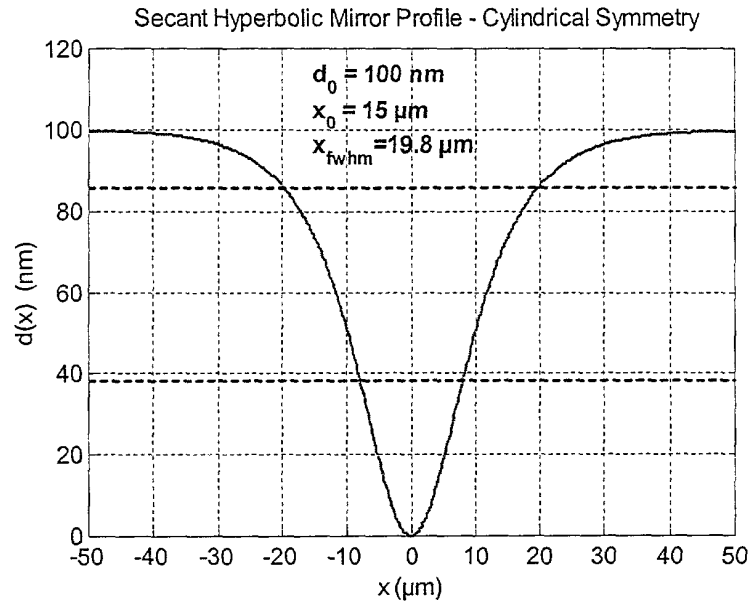


Fig. 12.

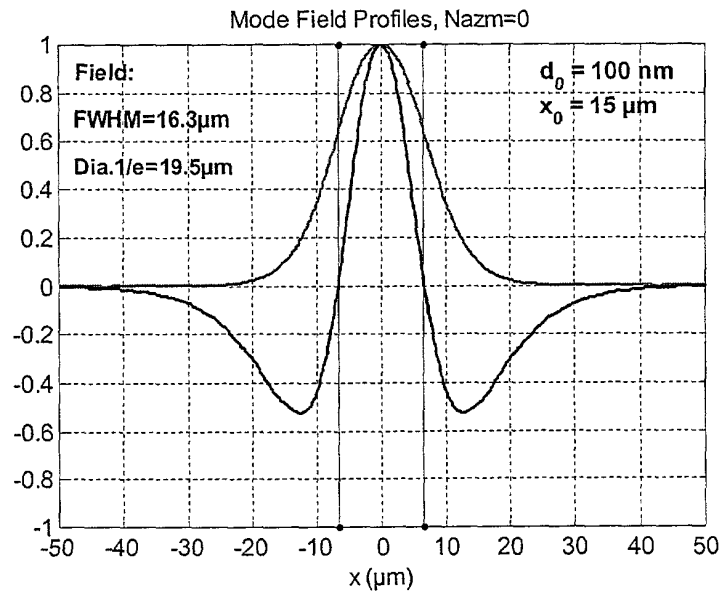


Fig. 13.



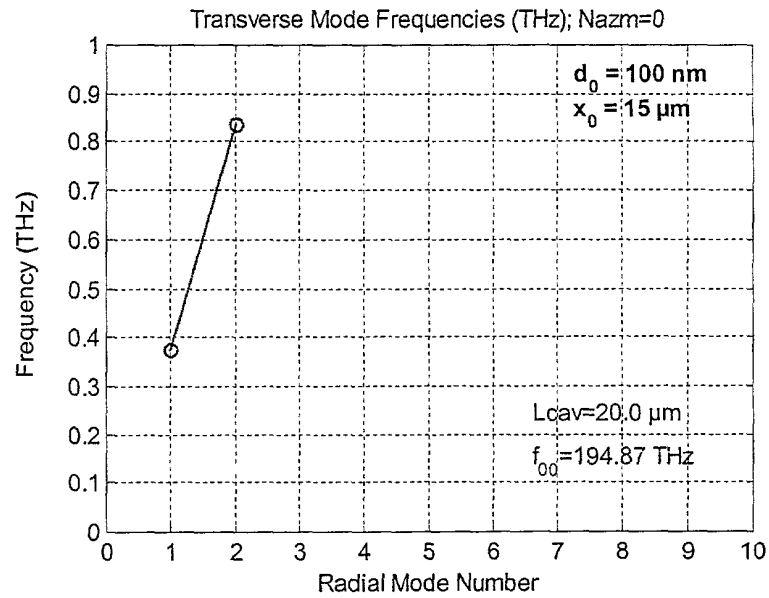


Fig. 14.

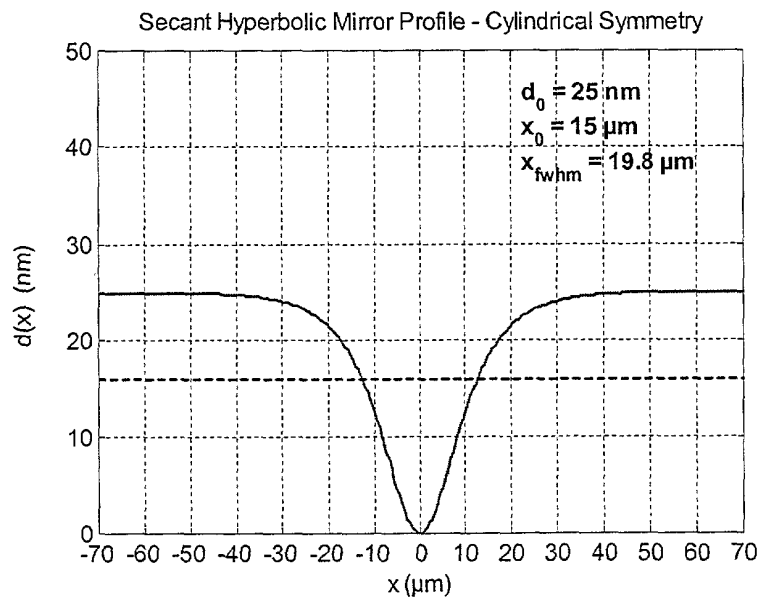


Fig. 15.

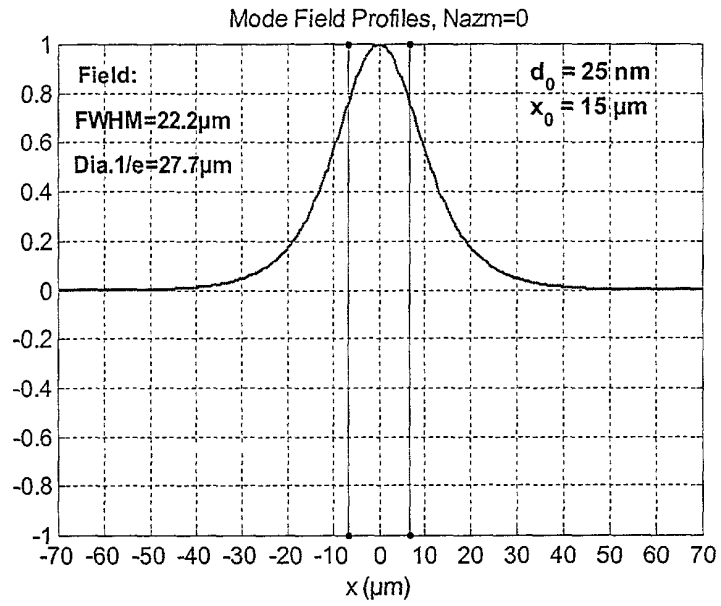


Fig. 16.

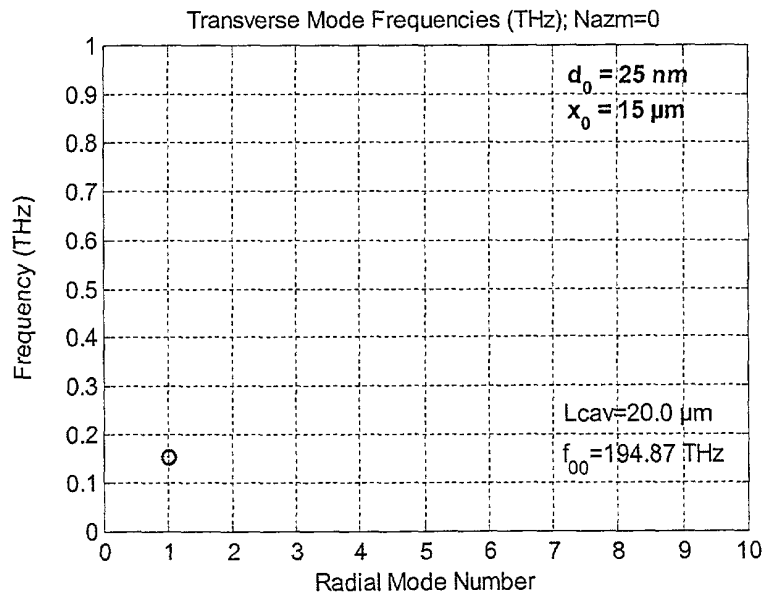


Fig. 17.

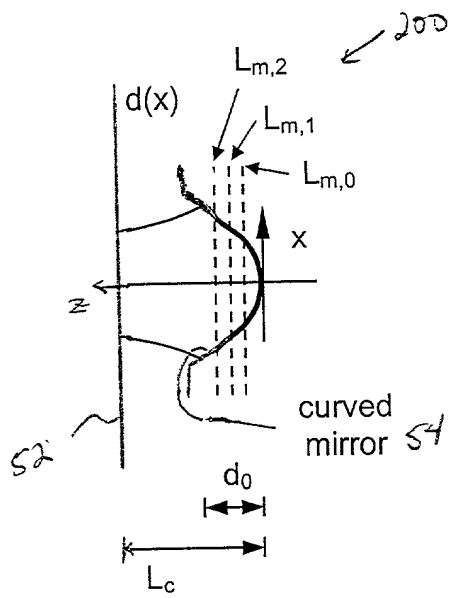


Fig. 18.

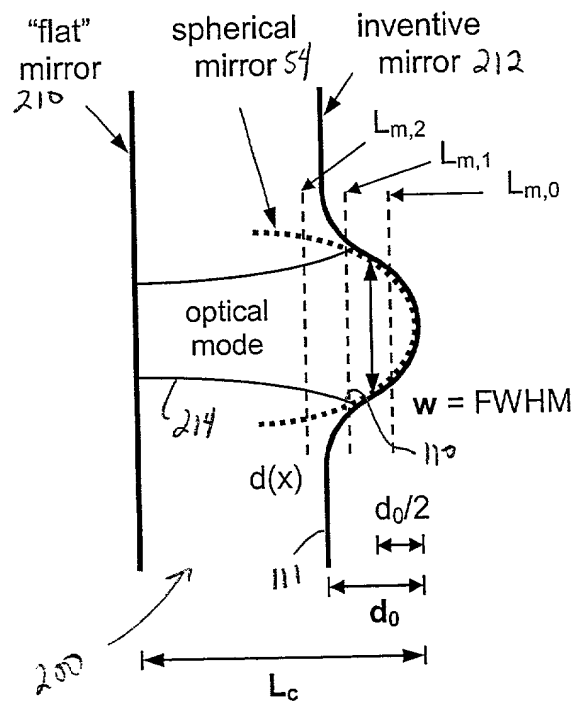
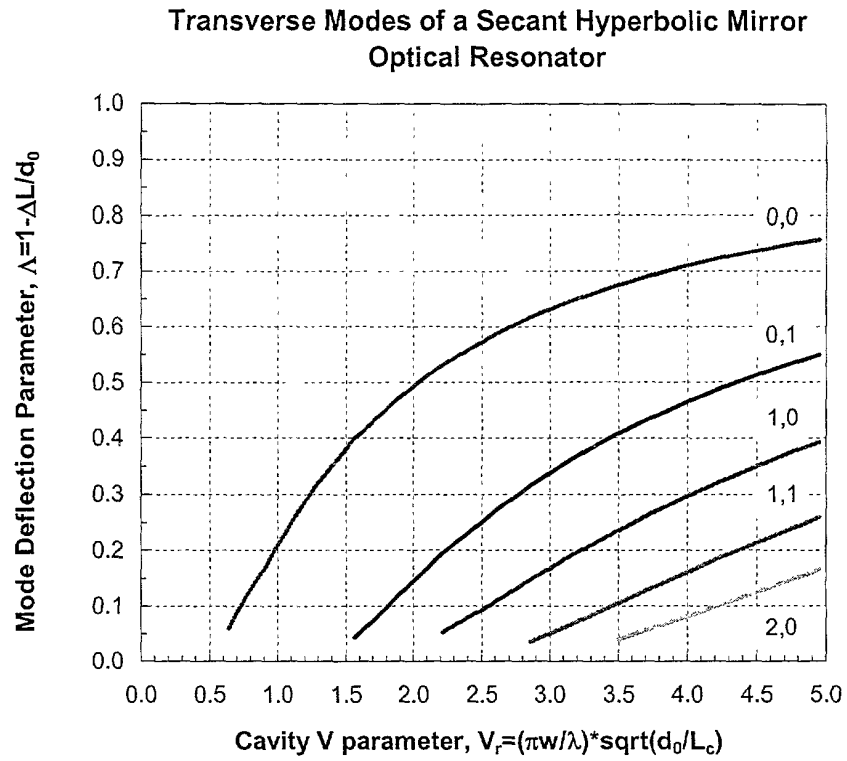


Fig. 19.



**Fig. 20.**

# Transverse Modes - Secant Hyperbolic Mirror Resonator

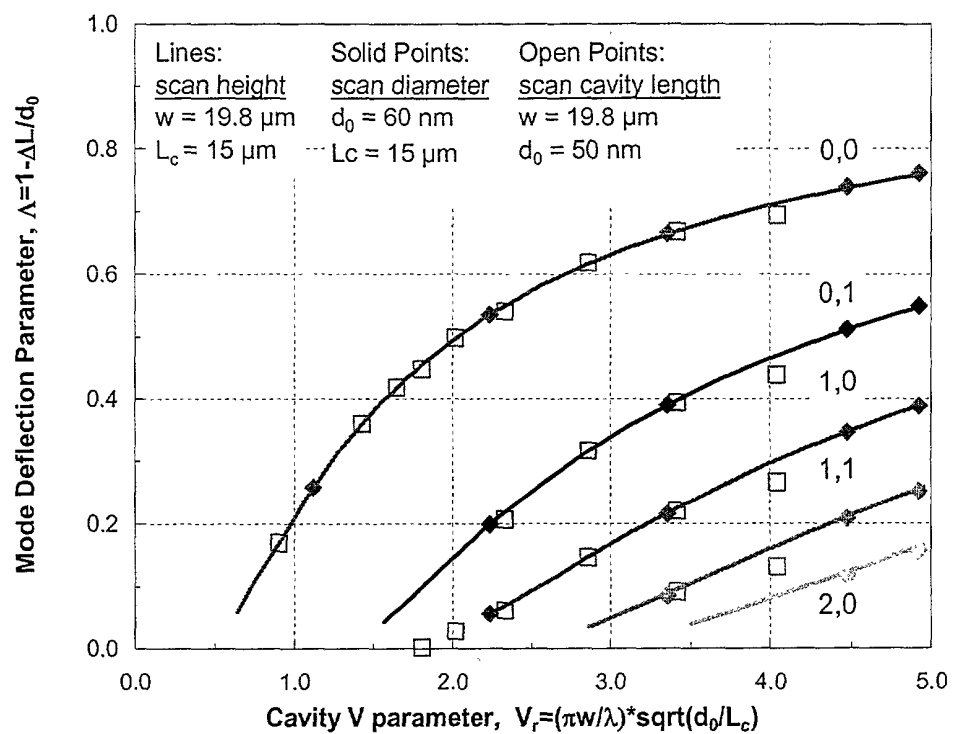


Fig. 21.

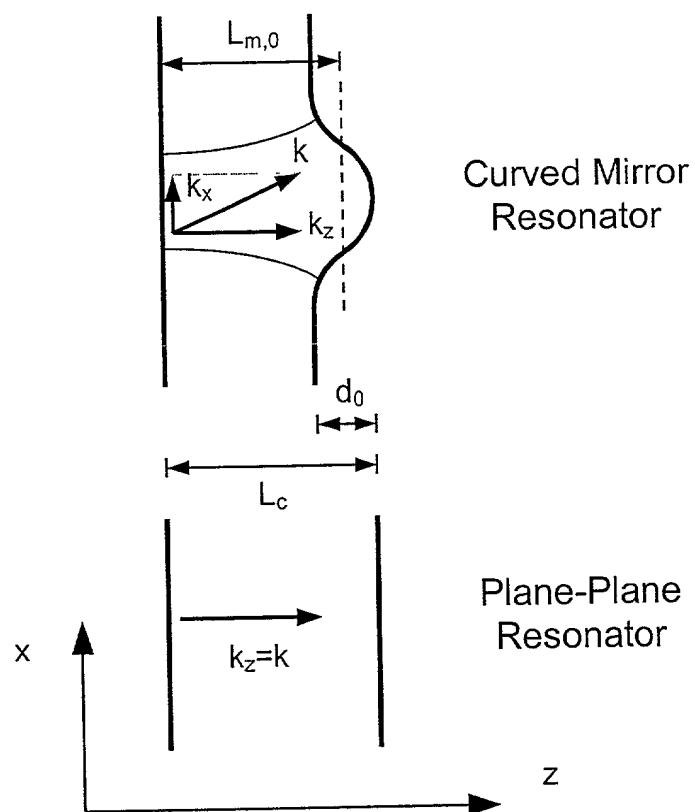
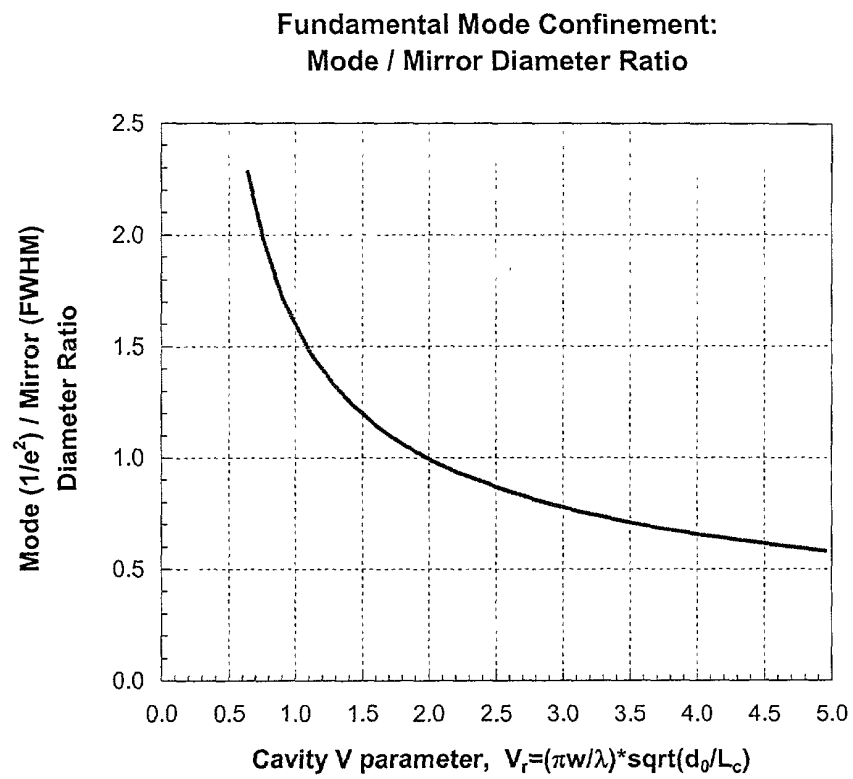


Fig. 22.



**Fig. 23.**

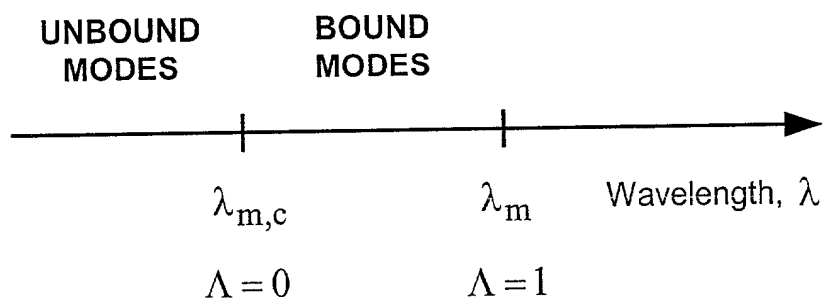


Fig. 24.



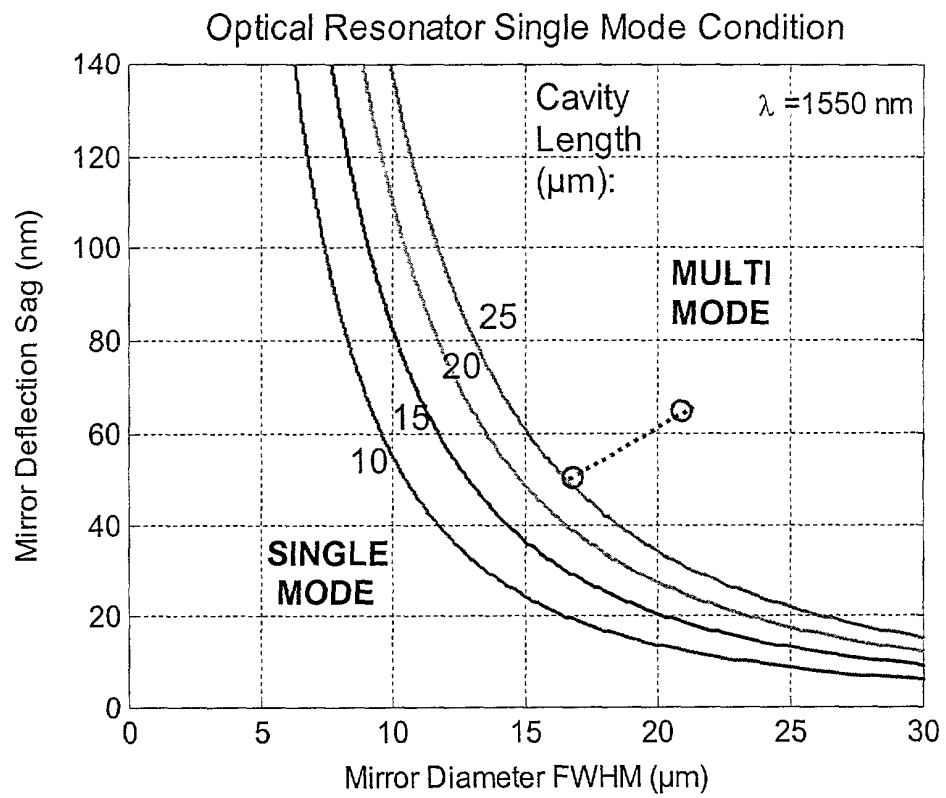


Fig. 25.

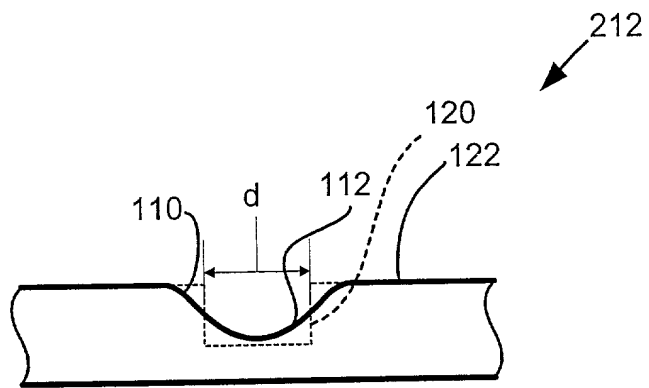


Fig. 20

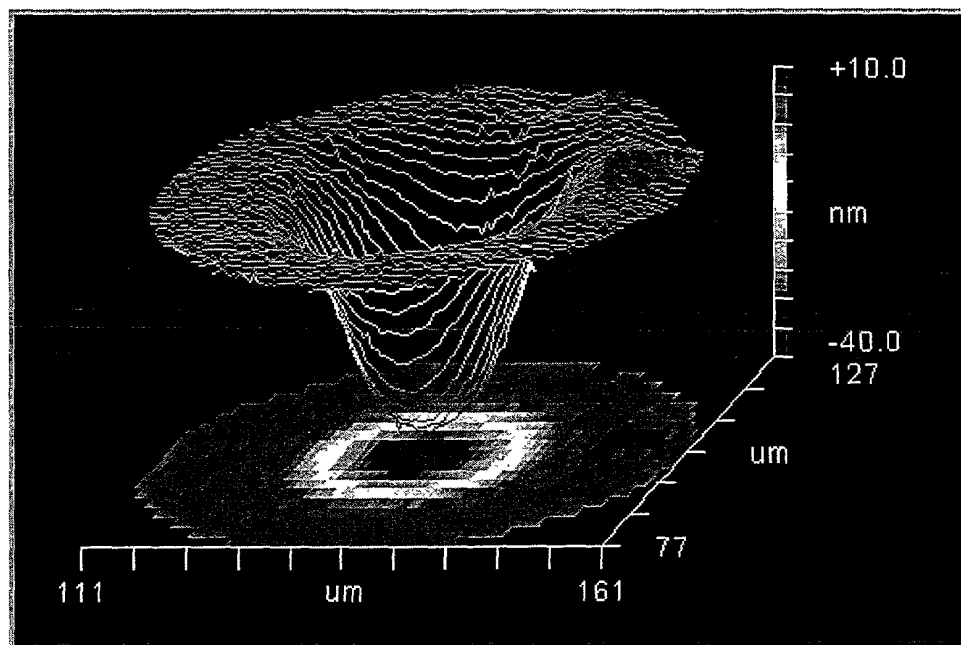


Fig. 27A.

### Mass Transported Mirror Profile

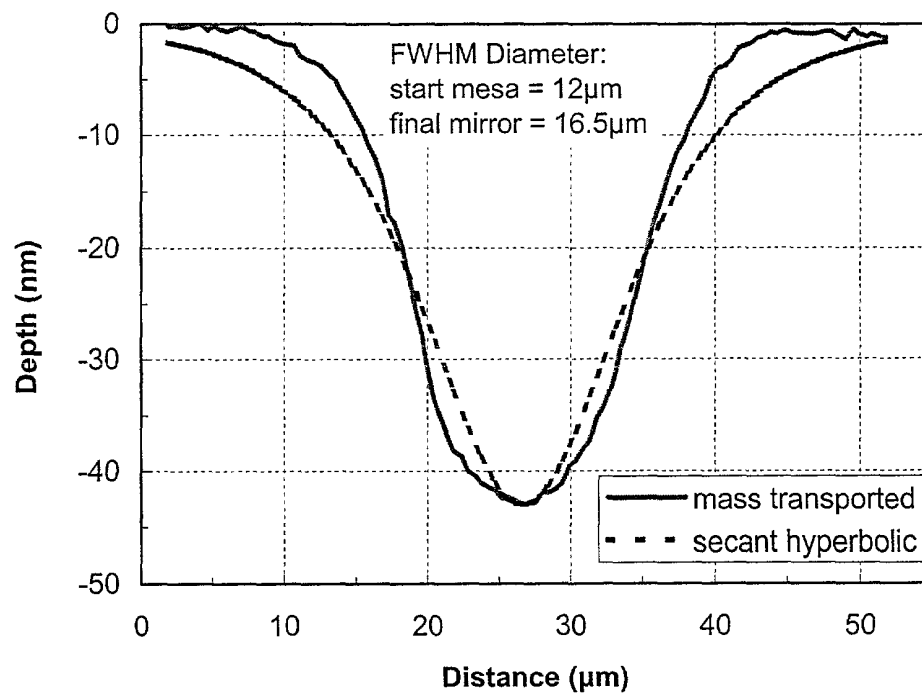


Fig. 27B.

# Transverse Modes of Optical Resonators with Finite Depth Mirrors

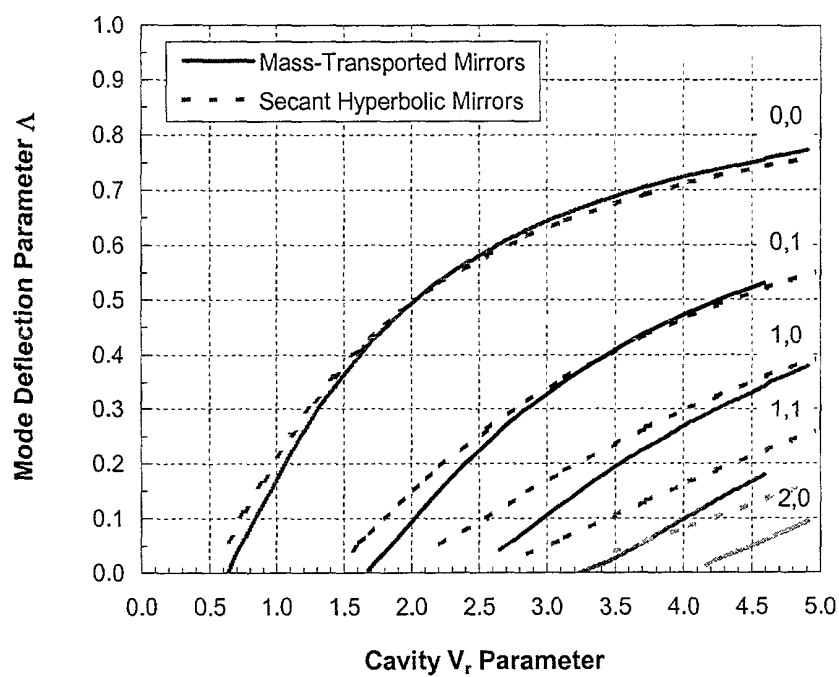


Fig. 28.

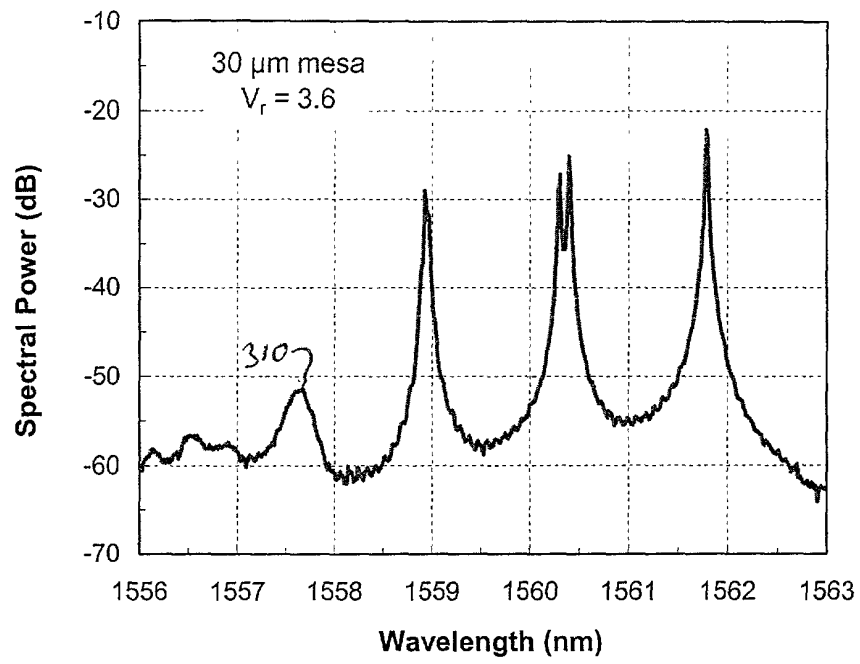


Fig. 29A.

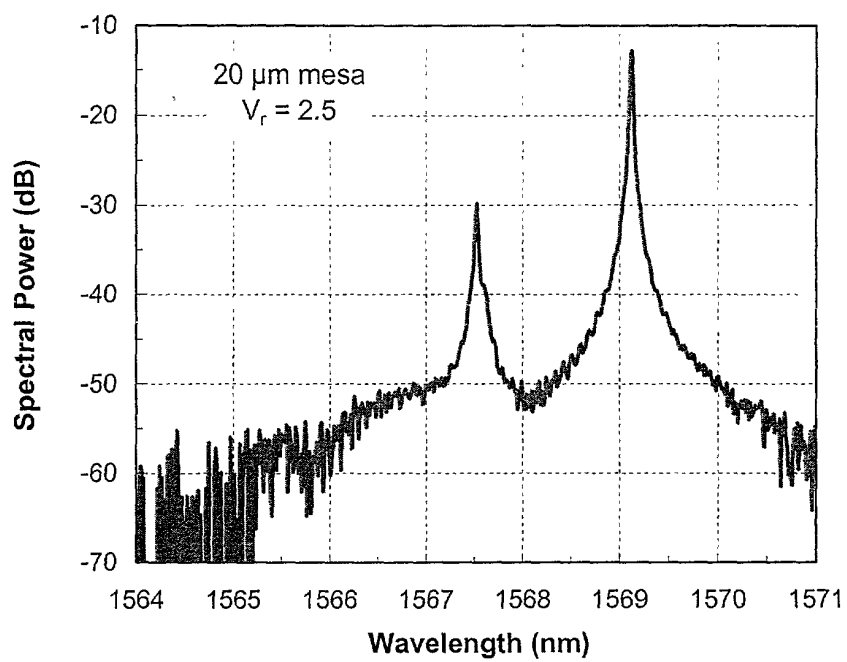


Fig. 29B.

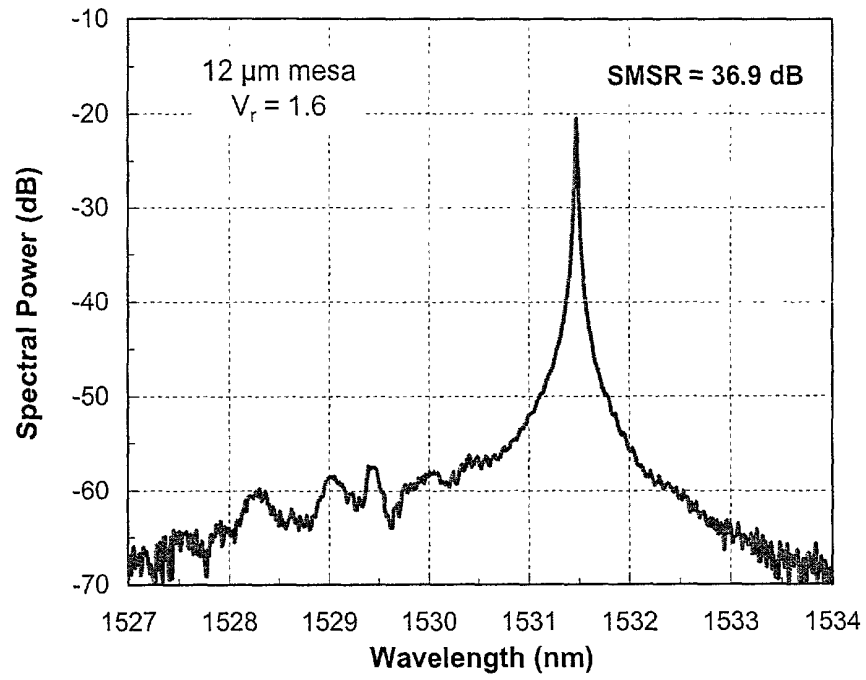


Fig. 29C.



Measured Mode Finesse vs. Mesa Diameter

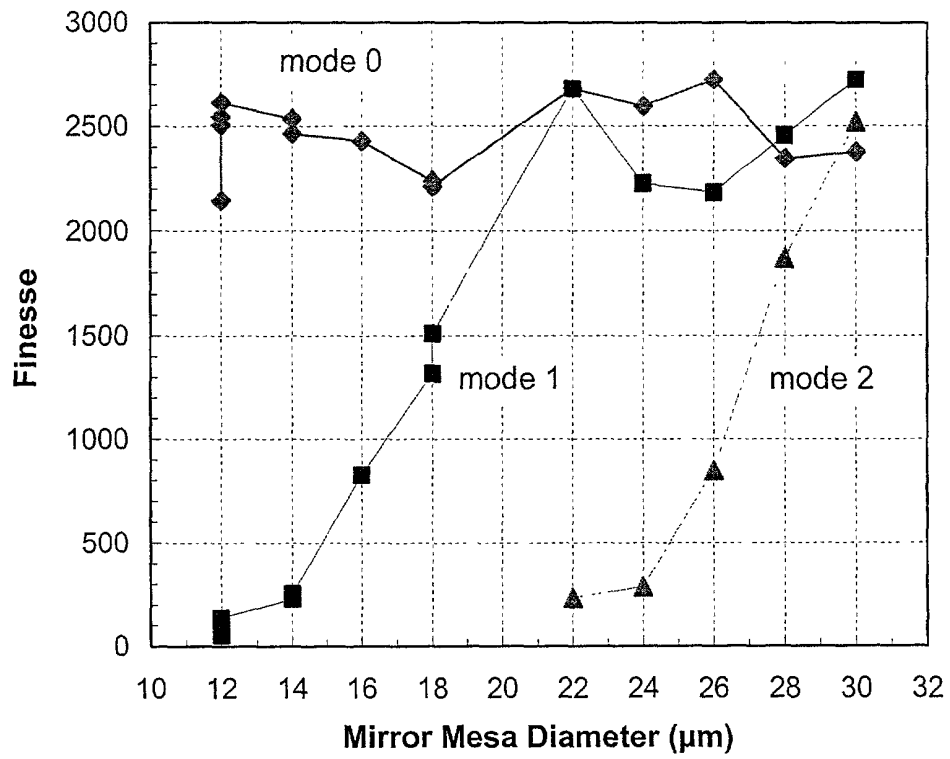


Fig. 30.

Measured Filter Finesse vs. Cavity  $V_r$  Parameter

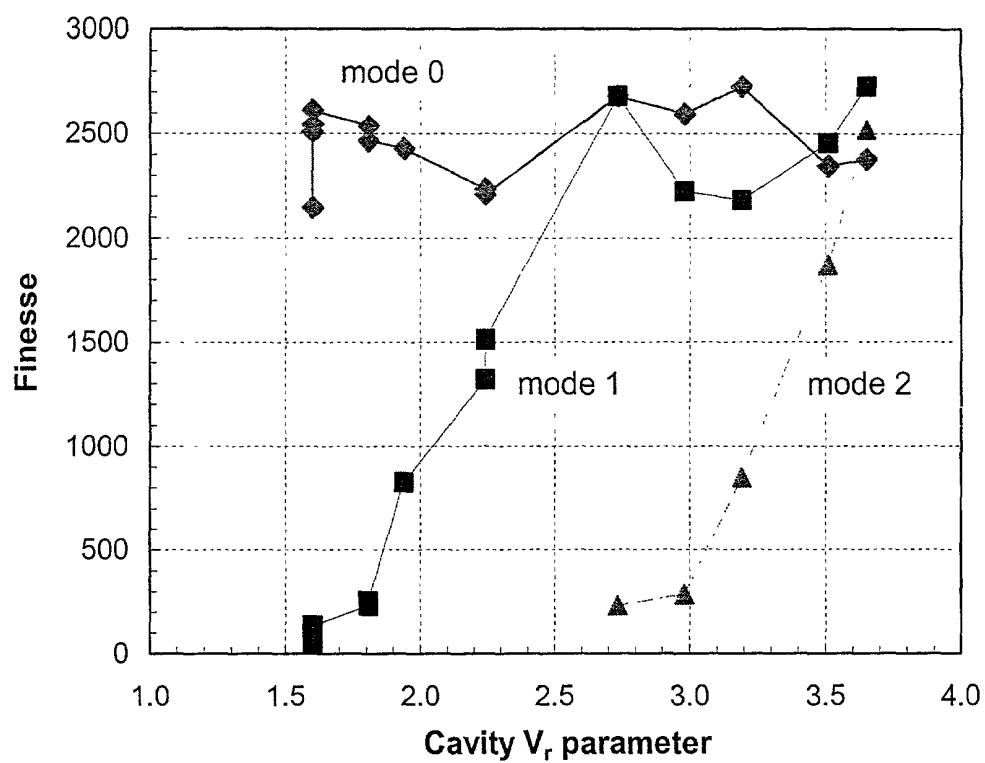


Fig. 31.

Conventional (Spherical) Mirror Filter SMSR (dB)

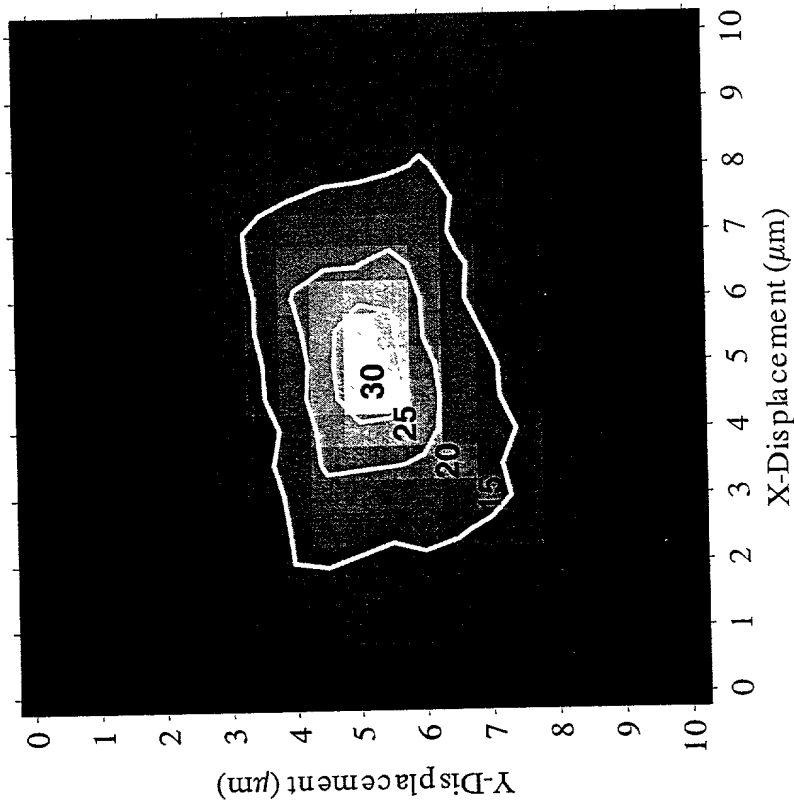


Fig. 32A

Inventive Mirror Filter SMSR (dB)

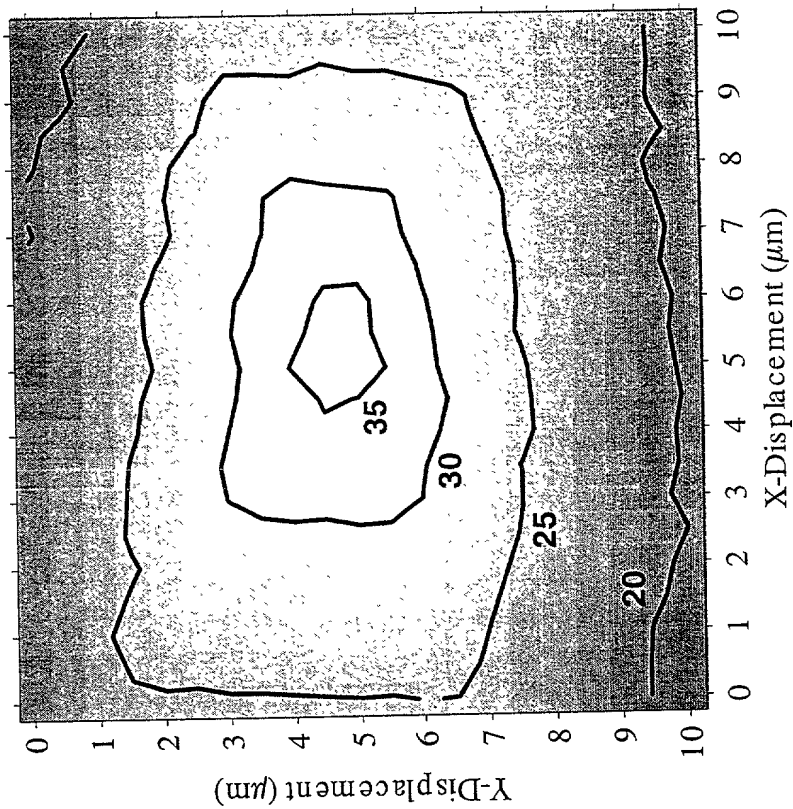


Fig. 32B

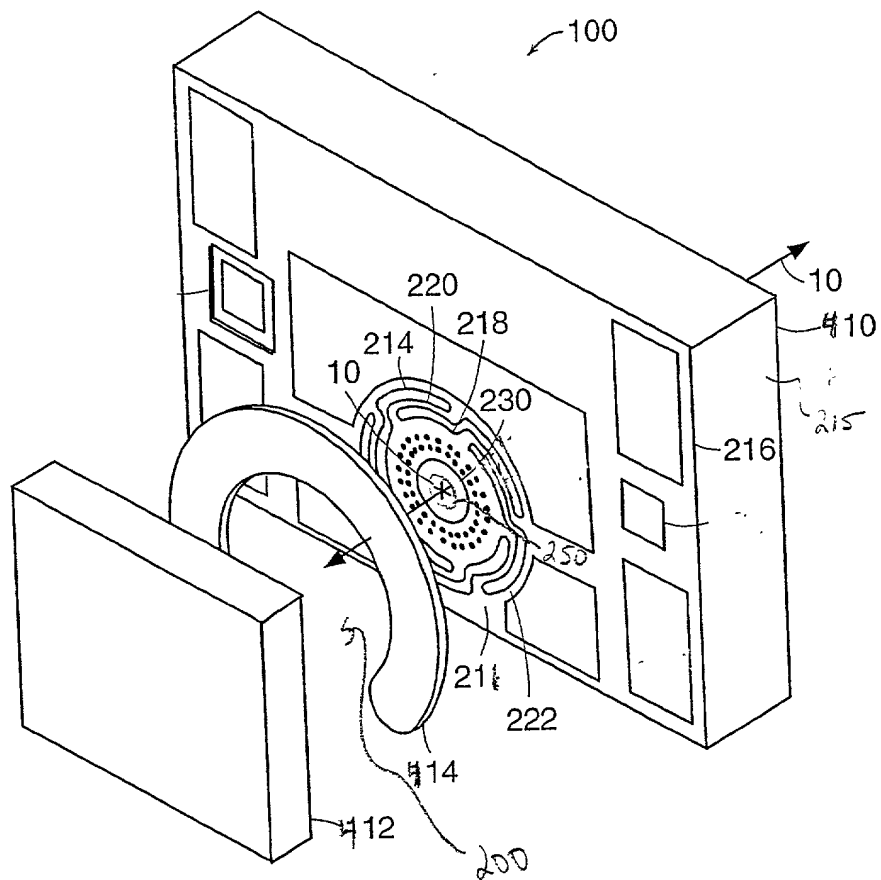


FIG. 33

Measured Tunable Fabry-Perot Filter Spectrum

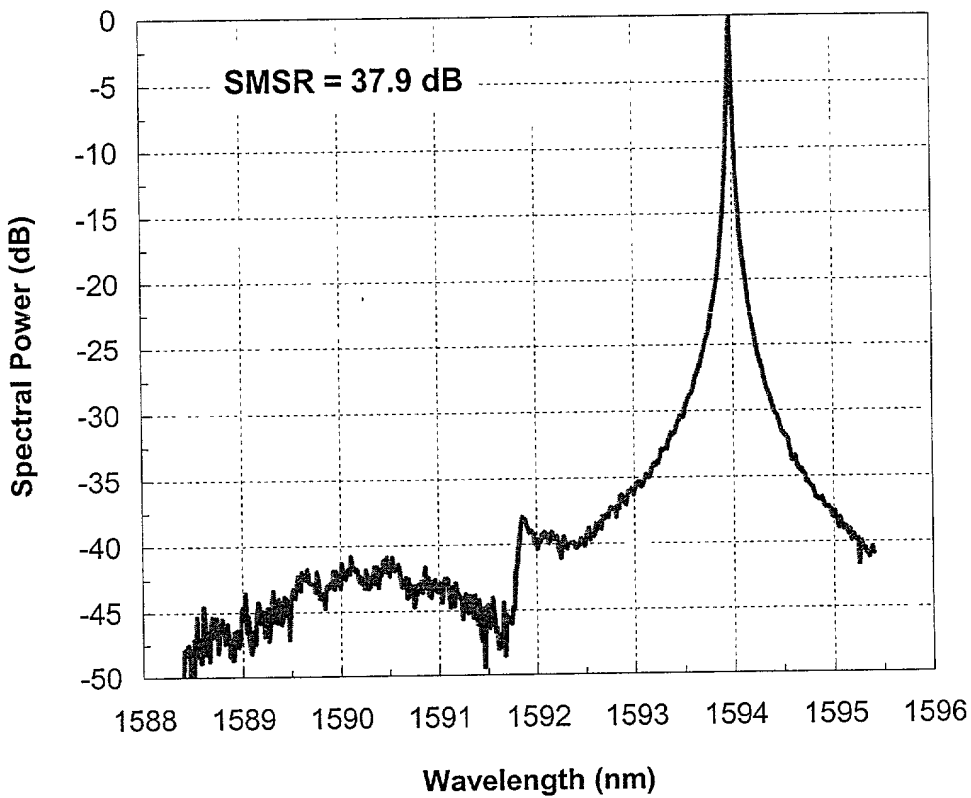


Fig. 34

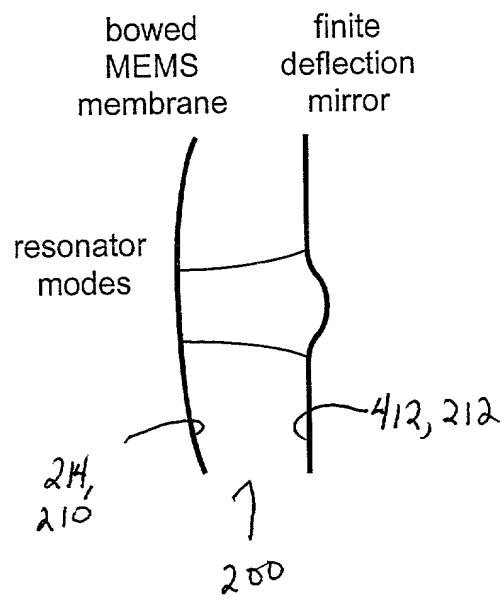


Fig. 35

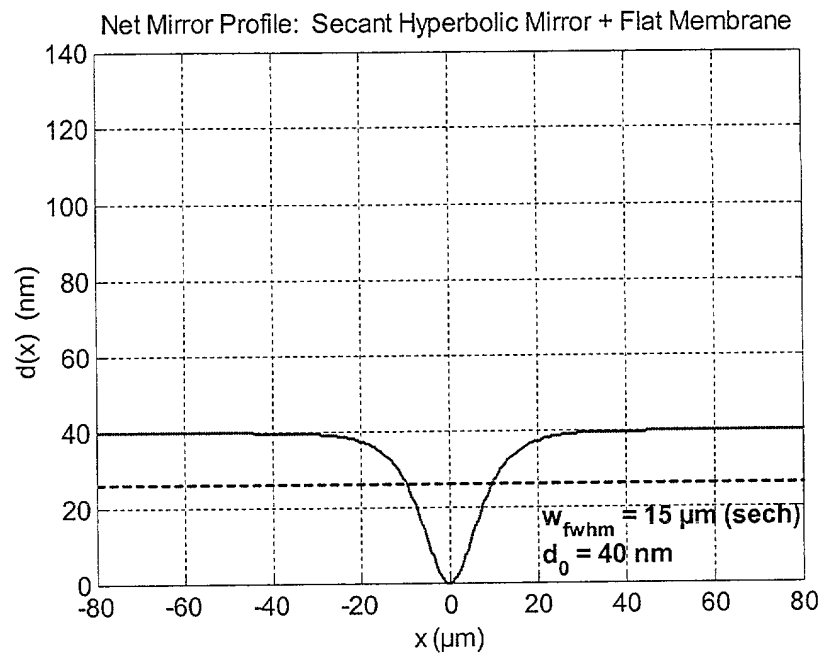


Fig. 36A

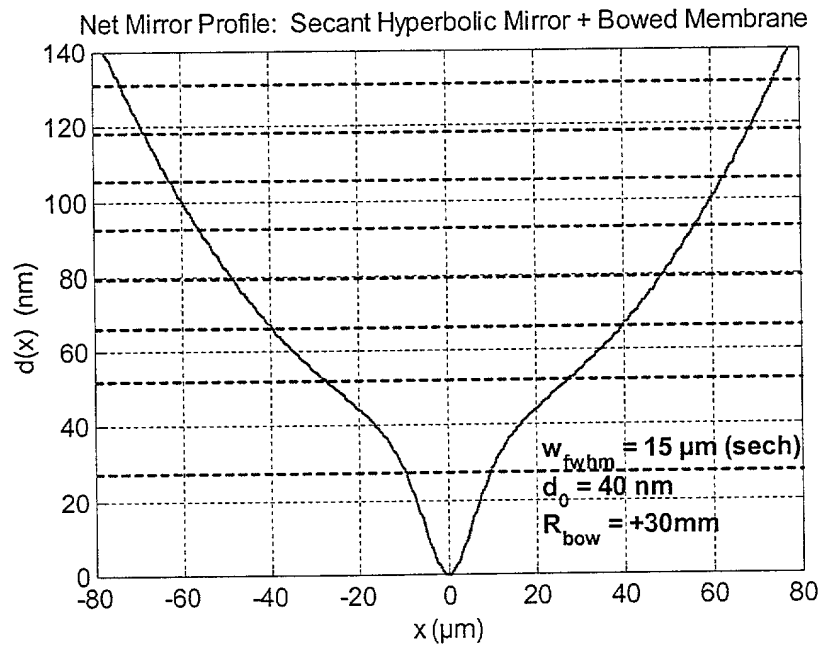


Fig. 36B

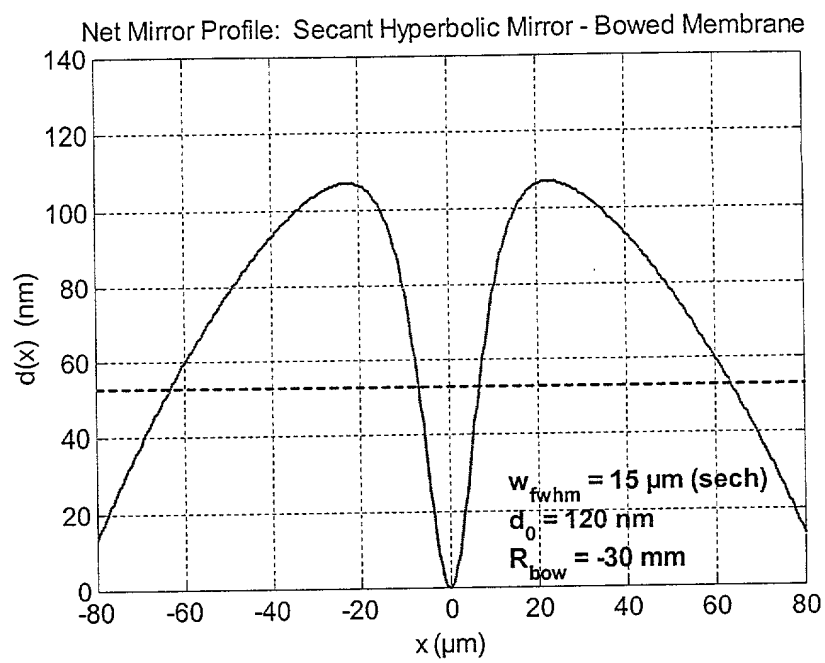


Fig. 36a

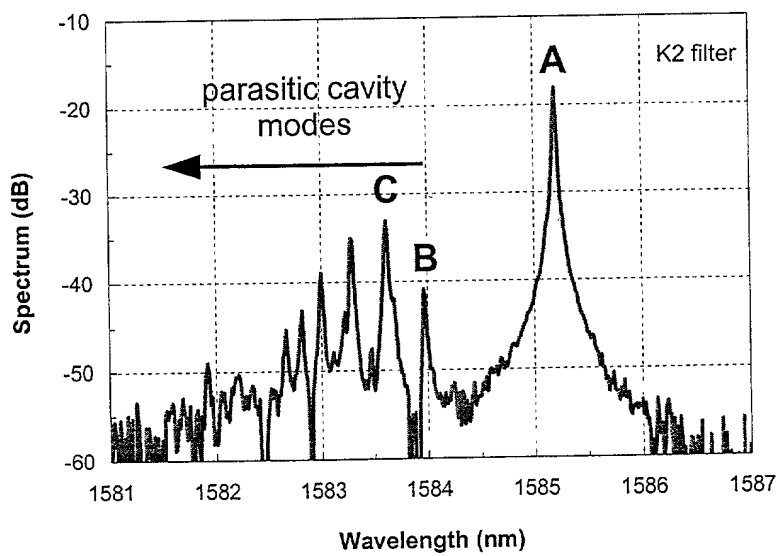


Fig. 37